B Scene

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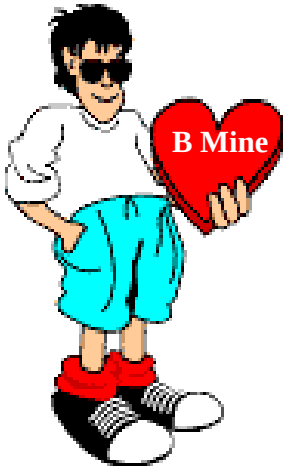


Happy Valentine's Day!

Look for:

Nanotechnology

Nanotechnology: it's a new word for the 'press' and has been increasingly used in the newspapers, magazine articles and on TV. For example, in the Feb 3 Albuquerque Journal, there is a lead article (front page) on the National Nanotechnology Initiative (NNI) that President Clinton recently announced and also discussed during his recent State of the Union Address. The President's FY01 budget proposes a $227M increase over FY00 funding in nanoscience R&D. If approved by Congress, NSF, DoD, DOE, NASA, DoC, and the NIH will all witness an increase in their respective FY01 budgets for nanoscience R&D.

What's going on at LANL re: the Nanotechnology Initiative? For more than a year, Terry Lowe, Deputy Division Director for MST, and others have been attempting to engage various Divisions, including Bioscience, in positioning the Laboratory to be able to respond to such an initiative as the NNI. A new "Nano" website: <http://int.lanl.gov/orgs/mst/nanotech/nano.html> updates the viewer on what's happening at LANL in the nanosciences. It is a continually evolving tool that provides information re. nanotechnology in the areas of R&D, facilities, program development opportunities, upcoming conferences, seminars and meetings, news from Washington, etc. In addition, it provides other useful web links in the nanoscience subject area. Several B-Division members have been regularly attending biweekly LANL nanotechnology meetings that have been organized by Terry Lowe. They are Basil Swanson, B-N2, Robert Donohoe, B-S2, Andy Shreve, B-S2, Ed Hildebrand, STB/B-DO, and myself. In addition, during a recent meeting of these individuals with Terry, Don Parkin (MST-DO) and Jill, the following was decided:

1) Robert Donohoe will work with various LANL Program Offices in gathering information on relevant 'calls for proposals' in nanotechnology with specific reference to those in the biosciences for Division-wide dissemination;

2) Andy Shreve, Basil Swanson and Robert Donohoe will provide the B-Division Thrust Leaders relevant nanobioscience information for possible inclusion in the ongoing development of their individual strategic plans;

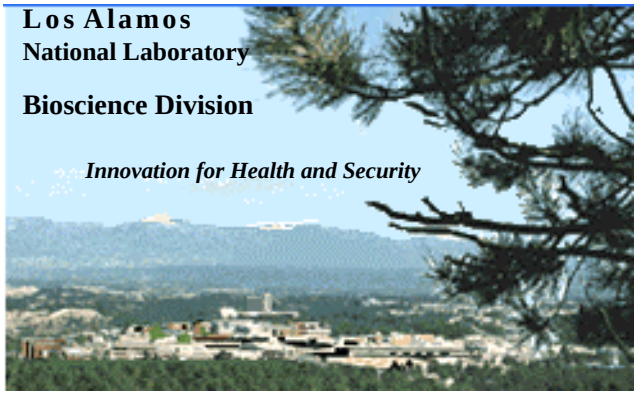
3) Andy Shreve, Basil Swanson,and Bruce Lehnert (B-N2) will organize an 'internal' "Nanobio Forum" with the specific intent to engage B-Division members in discussions on nanobioscience 'ideas' (**Note; The kick-off meeting for the "Nanobio Forum" will be on February 17, 2000 from 02:00-03:30 PM in the HRL Auditorium**); and

4) Andy Shreve, Basil Swanson,and Bruce Lehnert will work with Don Parkin in extending the "Nanobio Forum" for entertaining 'external' experts in nanobiosciences.

For more information, visit the website, and contact one or more of the individuals noted above.

➢ *Contributed by Gary Strniste (gfs@lanl.gov)*

From Jill's Desk



I hope you all have a chance to read John Browne's letter to employees in the most recent Reflections. The letter reflects John's awareness and concern about the difficult issues we faced as well as the wonderful accomplishments we made in the past year. His tone is optimistic, and he devotes a whole paragraph to the future of Bioscience at Los Alamos. Read it and reflect yourself on your own contributions to our success, even through times that are challenging!

Someone asked me this week to comment on "my position on limited term staff members," so here goes. Actually, I do not have "a position," but perhaps rather I can share with you the guiding principles that I gave the Resource Managers to work with as they developed their Workforce Plan, which includes how we utilize the different employment series. The first guiding principle is that personnel and compensation practices in B Division will be integrated with the Laboratory missions and norms and follow established Laboratory guidelines. I made this announcement at our October 20 all-hands meeting with respect to compensation practices, and have extended that principle to inlcude all aspects of our personnel practices. The second guiding principle is that for all our personnel, we will proactively support career development strategies and hiring practices that provide a proper balance between the institution's need for program execution, attracting and keeping the highest quality staff, and providing the best career opportunities for all. The Resource Managers have worked very hard with these principles in mind in developing each aspect of our Workforce Plan, including how we use limited term staff positions, how we honor our obligation to partner with our staff to develop their careers, and the criteria for hiring or transition to UC regular appointments. They will be rolling out the details of the plan over the next few months and I encourage you to talk with them individually and in open forums to provide feedback and gain clarification.

➢ *Jill*

Communications Team Report

Dr. Tom Meyer, Associate Laboratory Director for Strategic and Supporting Research, is visiting TA-35 and the HRL on Tuesday, Feb. 15th. He will start at the HRL at 8:15 a.m. and then arrive at TA-35 around 10:30 a.m. The purpose of his visit is to get better acquainted with the scientists and see some of our laboratories and workspaces. Your Resource Managers will let you know what is expected of you. Two Open Forums are scheduled…the first will be in the HRL Auditorium from 9:30-10:15 and the second takes place from 11:15 until noon in the TA-35, Bldg 2 conference room, Room B125. **Managers are requested to be absent from the Open Forums…this is an opportunity for Dr. Meyer to become better acquainted with non-managerial staff.**

➢ *Contributed by Sandra Zink, Team Leader*

B Safe

Flooding in the Labs. We have experienced several flooding events in the last year which collectively have cost thousands of dollars and have generated much angst. Two have resulted from failures to use hose clamps, or an appropriately robust hose clamp. The third occurred last week. A worker entered a lab (not their own) after hours, turned on the distilled water (possibly to rinse a beaker sitting in the sink) then left the room, probably to do other work or go home. However, once out of sight, the running water was out of mind. The sink plugged and the water ran all night, filling the sink, running over onto the floor and soaking neighboring labs and offices. The damage appeared superficial, custodians vacuumed and life went on. Several days later it was discovered that the water had coursed down (I love gravity) through pipechases to a room below saturating a Biohood HEPA filter. Besides disrupting operations, this event will result in more than $6K worth of damages, not to mention the waste of water. Be a good neighbor and keep track of your work. Own your work, own your spaces, own your actions.

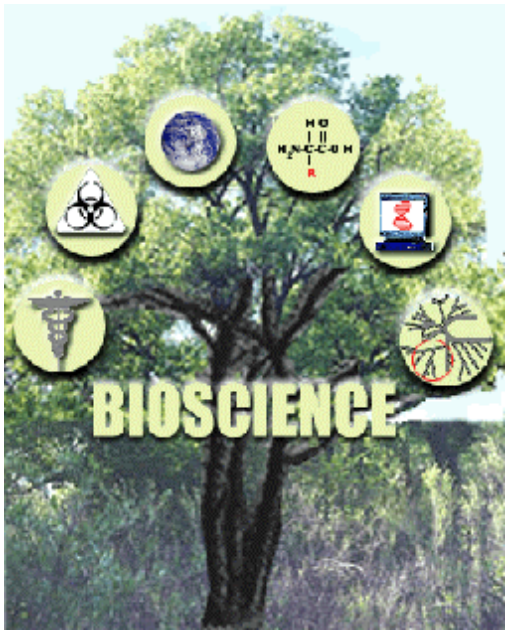
Protective Eye Wear. On another note, we had a DOE Facility Representative, Dave Barber, conduct a walk-through of HRL-1 about two weeks ago. He was accompanied by Rose Gonzales- Nielsen, ESH-5 Industrial Hygienist. Overall, they had only minor housekeeping findings- some chemical storage concerns. BUT there was an observation of a worker in the process of handling experimental materials (not noted specifically as chemicals) grab for her protective eyewear when she saw them. Wear the appropriate PPE as required. If you need eye protection that fits comfortably contact me at julie@telomere.lanl.gov.

➢ *Contributed by Julie Wilson*

A Tree Grows in B Division

Electra Sutton is the genius behind the "Tree of Bioscience, shown below. Developed as a cover page for the presentations to Senator Jeff Bingaman during his visit last month, the tree quickly captured the hearts and imaginations of Bioscience Division staff. The tree represents growth, the branches supporting

multidisciplinary efforts in bioscience and its intrinsically organic image conveys the right spirit for the Division. This graphic has been selected by the Management Team as the graphic for new Division T-shirts and B-Division staff are already asking when they can get one. The Science Leadership team has decided that T-shirts will be awarded for special contributions and/or ideas. They will also be on sale for a not-for-profit price with proceeds to be contributed to the Division's "morale" fund.



➢ *Contributed by Sandra Zink*

Bucks

OBER Report

Six PI's (Bill Bruno, Xian Chen, Robert Donohoe, Brian Dyer, Min Park, and Jill Trewhella) have been encouraged by OBER to submit full proposals to the Experimental and Theoretical Structural Biology initiative. Only one proposal was not encouraged and we knew it was a long shot going into the competition. All total, about 70 preproposals were encouraged to proceed out of the 125 that were submitted.

Also:
The Office of Science, DOE, has a new (Feb. 2) web page which is pretty slick, take a look at *http://www.sc.doe.gov*.

➢ *Contributed by Scott Cram and Ed Hildebrand*

NIH Corner

Okay, so the deadline is passed for new applications this round, now you need to learn about what brilliant ideas of yours are an exact fit to current or upcoming NIH Program Announcements, Special Programs, Requests for Applications and Otherwise Important New Areas. You can take advantage of the web to do this in two general ways.

NIH Home Page. The first is to visit the NIH web site and look through all of the listings of current funding opportunities. There is a pointer on the NIH homepage (http://www.nih.gov/) entitled "Research Opportunities", which is a good place to start, having separate sections for Grants, Training Grants and the NIH Guide for Grants and Contracts, which is "the official document for announcing the availability of NIH funds for biomedical and behavioral research and research training and disseminating policy and administrative information." You can use the NIH search engine within one of these sites, but be prepared to spend a little time at it: a search by me of "Bioengineering" produced 498 webpages.

Grant Alerting Service. The second is to get yourself listed on a grant alerting service so that you can get automatic notification by email of new programs. NIH has their own weekly email grant alerting service, which you can register for through their website (http://grants.nih.gov/grants/guide/listserv.htm). There is another more general alerting service called Fedix Opportunity Alert which you can also register for through their website (http://www.rams-fie.com/opportunity.htm). In this one you register and select from a series of keywords, and then receive a daily alert on opportunities that match your profile. This will find things from NIH but is much more general (e.g. you could get stuff from the Office of Navel Contemplation).

What Research is NIH Funding? One other way to gain a good estimate of trends for funding in a given Institute is to look at what is currently funded. You can search the individual Institute websites within the NIH (i.e., National Cancer Institute, National Institute of Environmental Health Sciences, etc.), but this can also produce tons of irrelevant stuff. The easiest way to search currently-funded NIH research is to use CRISP (Computer Retrieval of Information on Scientific Projects), which can be found at: http://www-commons.cit.nih.gov/crisp/index.html. This has a nice search engine using a database of all currently-funded NIH projects. This is a very complete site which they proudly announce has won the "Best Feds on the Web" Award for 1999. A search of "spheroids" yielded 14 currently-funded grants involving this system, including subprojects within Research Resources or Program Projects. A serach of "structural AND biology" yielded 1621 currently-funded projects, "nanotechnology" yielded 104 hits, while "spheroids AND nanotechnology AND structural AND biology" yielded 0. Guess I would have a job convincing an NIH Institute that this is a good area for investment. As an institution, we are not doing a bad job of convincing them to give us money, however: LANL is listed as having 104 ongoing NIH projects or subprojects, of which 12 are new or competitively-renewed RO1 grants (within the last year). We could

still do better: Johns Hopkins University has 1264 total NIH grants with 570 new or renewed awards.

➢ *Contributed by Jim Freyer*

NIH Cuts Back On Number Of New Grants; Total Grants Highest Ever

In what is more a testament to the recent good times than anything else, the Clinton administration's proposed $1 billion increase for the National Institutes of Health (NIH) would require a cut in new grant awards, which is largely due to funding commitments incurred in the past two years of unprecedented growth. With Clinton formally presenting his budget Monday, administration officials stressed that under their proposal, the total number of grants funded by NIH--which includes new awards (competing) and existing awards (noncompeting)--would be the highest ever. Officials project that with Clinton's proposed budget of $18.8 billion, they would support a total of 31,524 research project grants (RPGs), compared with 31,287 this year and 28,606 in FY 1999.

Constrain Growth. The extra funding, however, does not immediately translate to a comparable increase in the number of grant awards. According to an agency press release, NIH officials want to "restrain the growth of award and award size so as to control the growth of the commitment base and to avoid impeding our ability to undertake new initiatives." As part of this effort, under the president's budget NIH is proposing to hold cost increases for existing grants at 2 percent over FY2000 awards, which is less than the 3.6 percent inflation rate calculated with the Biomedical Research and

Development Price Index. "Based on the absolutely outstanding increases that we had in 1999 and 2000 we have built up a very large commitment base, and with this president's budget we will try to emphasize as best we can new and competing research grants within the limits," said Acting NIH Director Ruth Kirschstein at a press briefing Feb 7. NIH anticipates 7,640 new awards as a result of the budget increase compared to 8,950 new starts this year and 8,582 in 1999.

Costly Initiatives Kirschstein added that another issue affecting the number of new grants is that there are an increasing number of costly NIH initiatives that involve funding technologies or other projects with "mechanisms that are not always exactly the same as the traditional investigator initiated research grants." For example, NIH plans to spend $257 million this year and the next on a multifaceted bioinformatics program known as the Biomedical Information Science and Technology Initiative which, in addition to research grants, would involve (among other things) support for research centers, training, contracts and intramural projects. Kirschstein pointed out that under the president's proposal for FY 2001, 56.9 percent of the NIH budget--$10.7 billion--would be devoted to investigator-initiated grants. Meanwhile, research centers would get about $1.7 billion, R&D contracts would take about $1.2 billion and the intramural program would receive $1.8 billion.

Possible Further Increase from Congress Most observers believe NIH supporters in Congress will add as much as another billion to Clinton's NIH proposal, providing ample money for core programs. David Kaufman, president of the Federation of American Societies for Experimental Biology (FASEB), said that while Clinton's budget is a "strong starting point," the drop in new grants, if it became a reality, "could prove very discouraging to young investigators." "It is also disappointing that there will be only a two-percent increase in the cost of new and continuing grants," he said, according to a FASEB press release. "This is why we need to press for additional funding for NIH and maintain the commitment to doubling the agency's budget by fiscal year 2003."

CDC Budget Up. Meanwhile, other agencies in the Department of Health and Human Services also did relatively well in the final budget of the Clinton administration. The Centers for Disease Control and Prevention (CDC) would get $3.5 billion, $195 million or six percent more than they received this year. The FY 2001 budget for CDC includes $149 million in funding provided by the Public Health and Social Services Emergency Fund for activities related to **bioterrorism**. The Food and Drug Administration (FDA) would receive $1.39 billion, $163 million or 13 percent above this year's budget. The administration wants FDA to use the extra money for initiatives related to food safety, bioterrorism, and teen smoking. The Agency for Healthcare Research and Quality (AHRQ) would get $250 million, a $46 million boost.

➢ *Contributed by Scott Cram*

NIH Interested in Unique National Laboratory Capabilities

A video telecoference event was held at Sandia, Albuquerque, February 7th, involving Los Alamos, Livermore, and Sandia . We learned that Congress has encouraged NIH to investigate how to best partner with

DOE national labs to gain access to unique capabilities and facilities. Bill Camp from Sandia, ABQ, recently served on a National Academy panel that discussed such partnerships. Dick Swaja, an ORNL assignee at NIH, and Bill have set up a meeting at NIH for later this month to discuss bioengineering, computational biology and bioinformatics opportunities. The plan is for us to present only major capabilities that are core strengths (unique?) to the three DP labs along with examples of bioscience activities where they exist. ASCI and system level thinking will be featured along with nanotechnology, nanofabrication and robotics. My assignment is to pull together examples in bioscience that demonstrate the exciting capabilities and results of massive parallel computing. Other examples are also of interest such as high throughput proteomics, major resources, etc. Please send me your ideas and thoughts, right away.

➢ *Contributed by Scott Cram*

Biography

Meet Electra Sutton

Electra joined Bioscience Division last September as a member of the bioinformatics team headed by Gerry Myers. Coming here from the Washington, D.C., area, she couldn't wait to experience the West again. She worked for the FBI for 12 years as a web master and computer specialist for the R&D department and the public affairs office. One of her favorite projects was to develop the "Kids' Page" for the FBI. Electra said that Janet Reno wanted all her affiliate agencies to produce websites appropriate for children because of school access to the internet. One of Electra's contributions was to develop a child abductor profile, since these individuals generally appear to be quite harmless and friendly and can easily deceive someone as to their real intent. The message for the children was these apparently nice and harmless people can be very dangerous.

She began her career as an elementary school teacher with degrees in English and art education. Then she signed up for a class for teaching mathematics and discovered the Macintosh computer. She says, "This was it…I knew this was what I wanted to do." So she returned to college and acquired degrees in mathematics and computer science, which led to the job with the FBI. A few years ago, however, she decided that she could not face the prospect of retiring in the D.C. area. " I had to get back to the West," she says. "There's no sky there." Her son was attending school at the University of New Mexico and she thought that working at Los Alamos National Laboratory would be a "dream job." So, with good luck and perseverance, she found an opening through the internet and arrived here last fall. Her office area is on the second floor of the HRL east of the Division office. Stop by and say hello!

➢ *Contributed by Sandra Zink*

Bravo

Science for the 21st Century is a new publication of the LANL Public Affairs Office. The newest issue features Human Genome Studies, in an article written by Ternel Martinez. Check it out at http://www.lanl.gov/orgs/pa/science21/HumanGenome.pdf

Call for 1999 Distinguished Performance Awards Nominations

The Distinguished Performance Award (DPA) recognizes individual employees or teams of six or fewer people, and the Distinguished Project Team Awards (DPTA), recognizes larger project teams of up to 75 people. The deadline for submitting a nomination is April 10, 2000. Contact B Division management for more information.

Breaking News

Exploiting Recombination in Single Bacteria to Make Large Phage Antibody Libraries

Daniele Sblattero and Andrew Bradbury

The creation of large phage antibody libraries has become an important goal in selecting antibodies against any antigen. Here we describe a method for making libraries so large that the complete diversity cannot be accessed using traditional phage technology. This involves the creation of a primary phage scFv library in a phagemid vector containing two nonhomologous *lox* sites. Contrary to the current dogma, we found that infecting *Cre* recombinase-expressing bacteria by such a primary library at a high multiplicity of infection, results in the entry of many different phagemid into the cell. Exchange of V_H and V_L genes between such phagemids creates many new V_H/V_L combinations, all of which are functional. On the basis of the observed recombination, the library is calculated to have a diversity of 3×10^{11}. A

library created using this method was validated by the selection of high affinity antibodies against a large number of different protein antigens.

This work, which was done in Trieste before Andrew came to B Division, was published in Nature Biotechnology 18, 75-80, 2000.

➢ *Contributed by Andrew Bradbury*

B Heard

Thrust Area Teams Too Exclusive?

Am I alone in the following thought? Does anyone else feel like aspects of the B-Division reorganization have passed him or her by? Specifically, would readers provide a show of Emails to this correspondent if you are NOT directly associated with any of new Thrust Areas, meaning you and I haven't been contacted by anyone, and you are not serving on any Thrust Team. I know some of us have offered unsolicited opinions to team leaders. Did they have any impact? Do we give a hoot? So, what to do? If you feel strongly that you have good notions, yet haven't been solicited then I offer to compile them into a modest proposal to increase our inclusion and to present it to our new Division Leader. In any reorganization there is a strong tendency to manage 'top-down' rather than 'roots-up' simply because the former way is most efficient. Well, I think its possible to tinker with that tendency to increase innovation. (To borrow a phrase...). Thanks for your responses.

➢ *Mark MacInnes*

No Kidding

I would like to comment on the notice sent out last week on Access to Minors, that B Division will revert to the laboratory standard as stated in the administrative manual. I appreciated Jill's comments that followed up this notice. However, the admin document is 9 years old, and is a general policy. The rule is overly restrictive and is out of date with the current workforce.

There are no safety or classified material issues associated with bringing one's child into the HRL office areas which are not in limited access areas of the buildings, provided that the minor is supervised and does not create a disturbance. Office visits should not be used in lieu of appropriate day care. However, in my experience, an "office visit" by my child is a self-limiting activity, done out of desperation. After about 10 minutes of watching mommy send out a few emails and answer telephone messages, she is protesting in agony to go home.

HRL is on the edge of town, conveniently located next to schools, the medical center, private day care, and bus stops. Bringing one's child into work on an occasional basis should be an advantage to occupants of this site. Although I realize that Division management must choose its battles carefully, I would like to see the Division develop a more flexible policy for this site, with input from the affected parents. We are more deserving of your trust than this.

➢ *Babs Marrone*

Dear Editor,

I'd like to let people in the division know that I'm their representative on the library board. We meet once a month to advise the library director, Rick Luce, on a wide range of issues, such as electronic vs paper journal subscription and the future of the http://xxx.lanl.gov archive. For the first few months the meetings will be partly educational. Last week we learned that the library does some business as a nonprofit organization. The library sells some of its services available to us at LANL to several institutions thereby reducing our costs here. Later, we will be helping Rick set priorities for next year's budget. I f you have suggestions on how the LANL library could serve B-division better, please let me know.

➢ *Judy Mourant*

B There

The B Division staff seminar series is on Mondays at 11 AM in the HRL auditorium. Taxis will be available at TA-35 and TA-46 between 10:30 and 10:40 to facilitate south campus attendance.

February 14, Basil Swanson, "Humanitarian Demining and Chemical Sensors

February 21, HOLIDAY President's Day

February 28, Donna Gadbois, "Quilting with Fibroblasts"

Sensor Workshop in Santa Fe, Feb. 28-29, 2000.
Interested participants can get more information or register on-line through the web-site:
http://www.lanl.gov/programs/bioscience/Sensor_ws/meeting_contacts.htm

TECH TIME is a monthly information exchange meeting for B-Division "at-the-bench" personnel.

The B Division Postdoc Seminar Series
Stephan Franzen who is a former LANL postdoc and now faculty member at North Carolina State University will speak about his experiences in going from postdoc to professor. March 1, in the HRL Auditorium from 11:30-1pm.

➢ *Contact Kirk Rector at kdr@lanl.gov.*

Research Programs at NIAID, March 1, 2000.
Dr. Vicki Seyfert, Director, Office of Innovative Scientific Research Technologies, National Institute of Allergies and Infectious Disease, NIH, will give an overview of NIAID programs and opportunities. HRL auditorium, 10:30-11:30.

The 'kick-off' meeting for the B-Division-sponsored "**Nanobio Forum**" will be on Thursday, February 17, 2000 from 02:00 - 03:30 PM in the HRL Auditorium. Contacts are Bruce Lehnert, B-N2, Basil Swanson, B-N2, and Andy Shreve, B-S2.

LANL Director's Colloquia
Dr. Gabriele Kraatz-Wadsack, United Nations Special Commission, will speak on March 28th at 1:10 p.m in the Physics Division Auditorium. The title of her talk will be "UN Role in Disarmament and Long-term Monitoring of Biological Warfare in Iraq." Tehnical host is Jill Trewhella , B Division Director.

April 11, 2000 will feature Dr. Mihail (Mike) Roco, NSF and Chair of the President's National Science and Technology Interagency Working Group on Nanoscience, Engineering and Technology. His talk entitled "The National Nanotechnology Initiative" will be given in the Physics Auditorium beginning at 01:10 PM. Technical host is Terry Lowe, MST Deputy Division Director

Know Your Financial Analyst

Unit	Manager	Fin. Analyst	Phone
8TN100	Jim Brainard	Tammy Milligan	5-9358
8TN200	Basil Swanson	Andrea Salazar	5-6611
8TS100	Robert Atcher	Lorraine Hayes	5-5366
8TS200	Paul Gilna (Robert Donohoe,)	Julian Grace	7-7902
Facilities	Julie Wilson	Dave Motley	7-7561
Division Overhead	Jill Trewhella	Kathleen Vigil	7-1391

➢ *Contributed by Mark Cooper*

New Flow Cytometer/Sorter Installed

The Bioscience Division has recently acquired a FacsVantage research model flow cytometer manufactured by Becton Dickinson. The instrument has 3 lasers running simultaneously. Two lasers are Argon lasers. Wavelengths available include: 350 (UV), 457, 488, 514, and 528nm. The third laser is a Helium Neon (HeNe) with 35mW power at 633nm. There are a variety of filters available for the 8 photomultiplier tubes (PMT) to collect fluorescence.
The FacsVantage can sort at regular pressures (12psi) and using the turbosort capabilities it can comfortably sort at pressures up to 40psi. When sorting there are several options for deciding the features of the sample collected based on either purity, enrichment, or a specific count of sorted events. In addition, the sorted events can be directed onto a microscopic slide, into 12x75mm tubes, 15 ml tubes, 6 well plates, 96 well plates, or custom designed plates. There is also a feature called index sorting which allows the computer to recall the information for the cell, bead, bacteria, or other event sorted into a specific well of a 96 well plate or any other collection plate or slide. A refrigeration unit to cool the sample, sheath, and sorted sample has been put together by Joe Fawcett for chromosome sorting.

This instrument was purchased using FY99 DOE-OBER Capital Equipment funds. The National Flow Cytometry Resource (NFCR) is maintaining the instrument. Although the instrument use will be available to all researchers in B Division, it will only be run by an authorized operator, and for extensive operator assistance, a program code will be required. Carolyn Bell is the primary operator and Georgia Farris is the back-up operator. Investigators need to fill out a form describing the experiment and turn it in several days in advance. The forms are available on the door of the laboratory where the FacsVantage is located (B255) and filled out forms are also turned in at the door. Carolyn will confirm your time slot by phone or e-mail. A calendar on the door shows the dates and times already signed up. Flow cytometry analysis or sorting should not be planned until after 9:30am since it takes time to warm and align the lasers.

➢ *Contributed by Georgia Farris*

Job Openings

A new Tec 06 position is available in BN-1. The job is on the web at http://www.hr.lanl.gov/html/jobs/regjobs.html

➢ *Contact Mark MacInnes (*mci@lanl.gov*)*

Science has launched a new Resume/CV Database where scientists can post a resume/CV for inclusion in this database accessed by human resources professionals at leading biotechnology and pharmaceutical organizations. Post your resume/CV at their web site: www2.sciencecareers.org.

➢ *Contributed by Ed Hildebrand*

B Scenes

➢ *Photos by Annette Archuleta*

Go Team!

This RV (right) was parked outside of HRL-20 last week being loaded up with equipment and supplies for a background biological aerosol sampling campaign. The RV is used by a team of LANL researchers in support of the BASIS project. BASIS, which stands for Biological Aerosol Sentry and Information System, is sponsored by the DOE Chemical and Biological Non-Proliferation Program. Cheryl Lemanski (B-N2) and colleagues from NIS and TSA Divisions traveled to Salt Lake City and surrounding areas to collect various background aerosol samples, both outdoors and indoors. Cheryl planned and organized all the aqueous and dry filter sampling, and conducted the collections. Samples were packaged and shipped to John Dunbar (B-N1) here and Paula McCready at LLNL for molecular and microbiological analyses.

Inside the vehicle, Cheryl sets up the SCP air-to-liquid sampler. Cheryl reported a grueling collection regimen, but lots of data. "We went non-stop for 14 hours a day, for 3 days, but got to see a Jazz basketball game and The Grizzlies ice hockey team." However, *B Scene* knows that Cheryl's dedication and cheery presence were praised by her co-workers upon return.

Congratulations to the team for a job well done!

➢ *Contributed by Babs Marrone*

B Serious!

Nana-technology

*From **American Scientist,** Jan-Feb, 2000.*

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